

**Digital multiple axis controller for real-time process e.g. motion**

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**Inventor:** BRUNE RICHARD DIPL.ING.(DE); HOEPPNER BERNHARD DIPL.ING.(DE); ROCHHOLZ GUENTER DIPL.ING.(DE); WAGENFEL ALEXANDER DIPL.ING.(DE)  
**Applicant:** SIEMENS AG (DE)  
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The controller includes a central processor (CPU1) and at least one electric drive arrangement. Each electric drive includes an associated decentralized processor (CPU2, CPUin), whereby all decentralized processors are synchronized with the central processor over a programmable clock. All system conditions and measurements for the central and all decentralized processors, which are required for the control of the real-time process are stored (RA, RB, RC) at equidistant, synchronous points in time in a clock raster of the respective processor, in such way, that the associated system conditions and measurements are independently accessible at any time by the respective processor.

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